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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,359	12/28/2004	Paul Burt	122241	122241 2993 EXAMINER	
25944 7	7590 12/12/2006		EXAM		
OLIFF & BERRIDGE, PLC			EVANS, GEOFFREY S		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
•			1725		
			DATE MAILED: 12/12/2006	DATE MAILED: 12/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/519,359	BURT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Geoffrey S. Evans	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	•					
1) Responsive to communication(s) filed on 25 Se	eptember 2006.					
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 29,30 and 33-47 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 29,30,33-47 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3.⊠ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	A) [] -top://www.6	(PTO 413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	tion Summary Pa	rt of Paper No./Mail Date 20061210				

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DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claim 29,33-42, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niwa et al. in Japan Patent No. 60-49,987 in view of Soga et al. in Japan Patent No. 8-238,587. Niwa et al. discloses a laser welding apparatus with a laser head (element 18) that focuses a laser beam, uses a nozzle (element 26) that supplies a gas to remove metallic vapor from the weld zone and has a diametrically opposed nozzle (element 30) to remove this vapor. Soga et al. teach using a jet of argon gas at an angle of 10-70 degrees (see paragraph 8) towards an impingement point on the workpiece surface to remove plasma and adjusting the distance X depending upon the welding conditions (see first sentence in paragraph 7). It would

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have been obvious to adapt Niwa et al. in view of Soga et al. to provide this to suppress plasma so that laser welding can be accomplished efficiently by not having the laser beam attenuated by plasma.

- 4. Claims 30,44, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niwa et al. in Japan Patent No. 60-49,987 in view of Soga et al. in Japan Patent No. 8-238,587 as applied to claim 29 above, and further in view of Aoyama in Japan Patent No. 2000-263,726 A. Aoyama teaches a nozzle (element 15) adjacent to the laser head to provide a jet of high velocity gas to protect a cover slide (element 13). It would have been obvious to adapt Niwa et al. in view of Soga et al. and Aoyama to provide this to fully protect the cover slide.
- 5. Claims 43 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niwa et al. in view of Soga et al. and Aoyama as applied to claim 30 above, and further in view of Suzuki et al. in Japan Patent No. 59-223,191. Suzuki et al. teaches a nozzle made of a row of smaller outlets (see figure 4) to protect an optical element from spatter. It would have been obvious to adapt Niwa et al. in view of Soga et al., Aoyama and Suzuki et al. to provide this to fully protect the cover slide.
- 6. Applicant's arguments filed 25 September 2006 have been fully considered but they are not persuasive. The new limitations of "positioned behind the head, relative to the welding direction" and "in front of the head, relative to the welding direction" are merely statements regarding the manner of use of the apparatus. A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the

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prior art apparatus teaches all the <u>structural</u> limitations of the claim. See <u>Ex Parte</u>

<u>Masham</u>, 2 USPQ 2d 1647 (Bd. Pat. App. & Inter. 1987) and MPEP 2114. In claims

29,33-42 and 46 the apparatus is the same as that resulting from Niwa et al. in view of

Soga et al.. The difference that during the process the orientation of the elements

differs by 90 degrees (side nozzle instead of behind the laser beam movement) does

not make the apparatus claims allowable since this is a method limitation. There is no

way to distinguish between the two apparatuses in shipment before the apparatuses are

used to perform seam welding.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571)-272-1292. The fax phone number for the organization where this application or proceeding is 45 signed is (571)-273-8300.

GSE

Scotling & Even Geoffey S. Evans Primary Examiner Group 1700